WHAT IS CLAIMED IS:

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- 1 1. A telecommunications device, comprising:
- 2 an open loop power controller adapted to maintain a first phasing table and a 3 channel-temperature table;
- a closed loop power controller adapted to maintain a second phasing table and receive a power detector output;
- 6 wherein said open loop power controller is adapted to provide a power set 7 (APC) value in a first mode and said closed loop power controller is adapted to
- 8 provide said power set value in a second mode, and in said second mode, said
- 9 closed loop power controller receives said power detector output during a transmit
- 10 burst and after a transmit burst.
- 1 2. A telecommunications device in accordance with claim 1, said first 2 phasing table comprising pre-initialized power level and power set values.
- 1 3. A telecommunications device in accordance with claim 2, said second 2 phasing table comprising pre-initialized power detector and power level values.
- 1 4. A telecommunications device in accordance with claim 2, said channel
- 2 temperature table comprising a two-dimensional table of power set values with
- 3 temperature and channel.
 - 1 5. A telecommunications method for controlling transmit power in a 2 wireless telecommunications device, comprising:
 - 3 initializing first and second phasing tables, the first phasing table comprising
 - 4 pre-initialized power level and power set values, said second phasing table
 - 5 comprising pre-initialized power detector and power level values;
 - 6 initializing a channel-temperature table, said channel temperature table
 - 7 comprising a two-dimensional table of power set values with temperature and
 - 8 channel;

- 9 generating a power set value using said first phasing table and said channel-10 temperature table in an open loop mode; and
- generating a power set value by reading a power detector and accessing said
- 12 second phasing table in a closed loop mode, wherein in said second mode said
- 13 power detector is read while a transmitter is on and while a transmitter is off.
- 1 6. A method in accordance with claim 5, said initializing a first phasing
- 2 table comprising adjusting the APC value until the nominal power for each power
- 3 level is output from the telecommunications device and storing that value is stored in
- 4 the first phasing table.
- 1 7. A method in accordance with claim 6, wherein said initializing said
- 2 channel-temperature table comprising setting a number of telecommunications
- 3 devices to a specific channel and temperature;
- 4 adjusting the APC values of the telecommunications devices until the
- 5 telecommunications devices output the nominal power for power level zero; and
- 6 averaging the results for each telecommunications device.
- 1 8. A method in accordance with claim 5, said generating a power set
- 2 value in an open loop mode comprising determining a nominal APC value for the
- 3 channel used to phase the telecommunications device by finding the closest higher
- 4 channel and closest lower channel in the table, and interpolating between the room
- 5 temperature APC values in the table.
- 9. A method in accordance with claim 5, said initializing said second
- 2 phasing table comprising adjusting the APC value until the nominal power for each
- 3 power level is output from the telecommunications device and storing the output of
- 4 the power detector in the table.
- 1 10. A method in accordance with claim 9, said generating a power set
- 2 value in a closed loop mode comprising:

- 3 reading the power detector to get an actual RF power value;
- 4 looking up the desired RF power value in the second phasing table;
- 5 obtaining an RF error; and
- running a servo control loop calculation to find the APC value needed to correct for the RF error.
- 1 11. A telecommunications method, comprising:
- 2 providing an open loop power controller adapted to maintain a first phasing
- 3 table and a channel-temperature table;
- 4 providing a closed loop power controller adapted to maintain a second
- 5 phasing table and receive a power detector output;
- 6 wherein said open loop power controller is adapted to provide a power set
- 7 (APC) value in a first mode and said closed loop power controller is adapted to
- 8 provide said power set value in a second mode, said closed loop power controller
- 9 receives said power detector output during a transmit burst and after a transmit
- 10 burst.
- 1 12. A telecommunications method in accordance with claim 11, said first
- 2 phasing table comprising pre-initialized power level and power set values.
- 1 13. A telecommunications method in accordance with claim 12, said
- 2 second phasing table comprising pre-initialized power detector and power level
- 3 values.
- 1 14. A telecommunications method in accordance with claim 12, said
- 2 channel temperature table comprising a two-dimensional table of power set values
- 3 with temperature and channel
- 1 15. A telecommunications device, comprising:
- an open loop power controller adapted to provide a automatic power control
- 3 (APC) value in a low power mode;

- a closed loop power controller adapted to provide an APC value in a high power mode;
- 6 wherein in said high power mode, said closed loop power controller receives a
- 7 power detector output during a transmit burst and after a transmit burst.